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Inorganic pigment mixt. containing filler - and as dispersant,
phosphoro-polysiloxane, to increase dispersibility in plastics

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Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 3015766	A	19811029	DE 3015766	A	19800424	198145 B
DE 3015766	C	19840816				198434

Priority Applications (No Type Date): DE 3015766 A 19800424

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
DE 3015766	A	16		

Abstract (Basic): DE 3015766 A

Inorganic pigments (IA) and fillers (IB) with improved dispersibility in plastics have a coating of phosphoropolysiloxane (II), pref. in an amt. of 0.1-2 (0.2-1)% w.r.t. the wt. of (I). S (II) can be linear, branched or cyclic and have the following units, in any sequence: (R'O_{1/2}) (R₂SiO) (O₂P(OH)) (RSiO_{3/2}) (SiO₂) (R₃SiO_{1/2}) (in which R and R' independently are H, alkyl, cycloalkyl, aryl and/or alkenyl gps.). Pref. (II) comprise (HO_{1/2})₂(R₂SiO)_x(O₂P(OH))_y (in which x is over 6 and y is over 3. x+y = 10-1400, pref. 90-800). (II) have a P content of 0.1-15 (1.5-4.5)%. (II), opt. in diluted or emulsified form, can be applied to (I) before or during micronisation of the wet or dried filter cake.

(I) are specified for use in plastics and for producing (I) batches.

Derwent Class: A60; A97; G01

International Patent Class (Additional): C08J-003/22; C08K-003/34;
C09C-003/12